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APPLICATION NO.	FILING DATE	FIRST	NAMED INVENTOR		ATTOR	NEY DOCKET NO.
09/554,025	06/15/00	DORR		С	TRW(EHR4846	
_		E1840 D 1 A D	<u> </u>		EXAMI	NER
TAROLLI SUNE	OHEIM COVELL		JZ	GARCTA	. F	,
TUMMINO & SZABO				ART UNIT		PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Application No. Applicant(s)				
	Office Action Summary	09/554,025	DORR, CHRISTOPH			
		Examin r	Art Unit			
The MAILING DATE of this communication		Ernesto Garcia	3629			
3	The MAILING DATE of this communication app for Reply	ars on the cover she t with the c	correspondenc address			
afte - If th - If No - Faile	MAILING DATE OF THIS COMMUNICATION. MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply. O period for reply is specified above, the maximum statutory period wi ure to reply within the set or extended period for reply will, by statute, or reply received by the Office later than three months after the mailing of ed patent term adjustment. See 37 CFR 1.704(b).	'IS SET TO EXPIRE 3 MONTH(6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days	S) FROM nely filed s will be considered timely			
1)[,,			
2a)[Responsive to communication(s) filed on 15 Ju	<u>ine 2000</u> .				
	This action is FINAL. 2b)⊠ This	action is non-final.	ا ا			
3)	Since this application is in condition for all		Secution as to the			
Dispositi	closed in accordance with the practice under Exon of Claims	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
	Claim(s) 1-10 is/are pending in the application.					
. —	4a) Of the above claim(a)					
5)	4a) Of the above claim(s) is/are withdrawn Claim(s) is/are allowed.	from consideration.				
•	Claim(s) <u>1-10</u> is/are rejected.		1			
7) 🗌 (Claim(s)/_ is/are objected to.					
8) 🗌 (8	Claim(s) are objected to.					
Applicatio	Claim(s) are subject to restriction and/or el	lection requirement.				
10)∏ Th	he specification is objected to by the Examiner.					
,_,	ne drawing(s) filed on is/are: a) accepted Applicant may not request that any objection to the	or b) objected to by the Examin	ner.			
	De proposed drawing any objection to the dra	awing(s) be held in abeyance. See :	37 CFR 1 85(a)			
	o medicin mod on	3) 1000cod	d by the Examiner.			
12) 🗌 Th	If approved, corrected drawings are required in reply to e oath or declaration is objected to by the Exami					
riority und	der 35 U.S.C. §§ 119 and 120	ner.	1			
13) 🛛 Ad	Cknowledgment is made of a claim to					
a)⊠ .	cknowledgment is made of a claim for foreign prio All b)☐ Some * c)☐ None of:	ority under 35 U.S.C. § 119(a)-(d) or (f).			
	None of					
2.[Certified copies of the priority documents haveCertified copies of the priority documents have	ve been received.				
2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage * See the attached data let 0.55						
* See	application from the International Bureau the attached detailed Office action for a list of the	ocuments have been received in (PCT Rule 17.2(a)).	this National Stage			
	and the control of a claim for domestic price	rity under 25 U.O.O. a				
a) [] 15)[] ∆okr	The translation of the foreign language provision nowledgment is made of a claim for domestic price.	ral application has been reason	a provisional application).			
achment(s)	nowledgment is made of a claim for domestic price	ority under 35 U.S.C. §§ 120 and	u. /or 121			
		55 .=5 and	121.			
Information	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) n Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summary (PTO 5) Notice of Informal Patent	-413) Paper No(s) Application (PTO-152)			
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the area" and "the opening" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "the cylindrical center part" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 6 recites the limitation "the area" and "the ball equator" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 8 recites the limitation "the indentation" in line 2. There is insufficient antecedent basis for this limitation in the claim.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

Claims 1, 4, 5, 9 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Pazdirek et al., 5,609,433.

Regarding claim 1, as best understood, Pazdirek discloses in Figure 2 a ball-andsocket joint 14 having a joint pin 20, a plastic joint housing 12, a bearing shell 36, and a metal ring 26. The joint pin 20 is provided with a joint ball 22. The bearing shell 36 is inserted into the plastic joint housing 12. The metal ring 26 is embedded in the joint housing 12, and the metal ring 26 has a radially inwardly bent end segment 32 (Fig. 3) located in an area of an opening O in the joint housing 12.

Regarding claim 4, an inside diameter of a cylindrical center part 28 (Fig. 3) of the metal ring 26 approximately corresponds to an outside diameter of the bearing shell 36.

Regarding claim 5, the cylindrical center part 28 of the metal ring 26 ends approximately in an area of a ball equator of the joint housing 12.

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Regarding claim 9, Pazdirek discloses the joint housing **12**, in the are of the opening **O**, is provided with a ring groove **P**.

Regarding claim 10, Pazdirek discloses the joint housing **12** integral with a chassis strut **E**, and made of plastic (col. 4, lines 24-33). Applicant is reminded that the method of forming the device by injection molding is not germane to the issue of patentability of the device itself. Therefore, this limitation has not been given patentable weight.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Bergstrom, 3,650,004.

Regarding claim 1, as best understood, Bergstrom discloses in Figure 1 a ball-and-socket joint having a joint pin 100, a plastic joint housing 5, a bearing shell 18, and a metal ring 6. The joint pin 100 is provided with a joint ball 2. The bearing shell 18 is inserted into the plastic joint housing 5. The metal ring 6 is embedded in the joint housing 5, and the metal ring 6 has a radially inwardly bent end segment 200 located in an area of an opening in the joint housing 5.

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Regarding claim 2, the metal ring 6 has an end provided with a radially outwardly angled flange 300. The metal ring 6 has an end extrusion-coated with a material of the joint housing 5.

Regarding claim 3, the flange **300** protrudes at an approximately 90 degrees angle from a cylindrical center part of the metal ring **6**.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the patentability shall not be negatived by the manner in which the invention was made.

Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pazdirek et al, 5,609,433 in view of Morin, 4,318.627.

Regarding claim 6, as best understood, Pazdirek et al. fails to disclose the bearing shell 39, in a pin-side area, provided with slits reaching up to an area of a ball equator. Morin disclose in Figure 4 a bearing shell 30, in a pin-side area, provided with slits 34 reaching up to an area of a ball equator x (Fig. 1). Morin teaches the bearing shell with slits 34 to ensure preloading and automatic taking up of play between a ball

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and an annular flange (the ring; see abstract). Therefore, as taught by Morin, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include slits on a shell to ensure preloading and automatic taking up of play between a ball and an annular flange.

Regarding claim 7, Morin teaches in Figure 2 the bearing shell 14, in a head-side area facing away from the joint pin 23, is provided with indentations 32 (Fig. 4) extending parallel to a joint axis L.

Regarding claim 8, as best understood, Morin teaches in Figure 4 the slits 34 and indentations 32 are mutually offset in a circumferential direction. The slits 34 and indentation 32 are formed in the bearing shell 14.

Conclusion

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Dorr et al. and Wood show a similar ball-and-socket joint.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ernesto Garcia whose telephone number is 703-308-8606. The examiner can normally be reached on 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's Page 7 supervisor, Lynne H Browne can be reached on 703-308-1159. The fax number for the organization where this application or proceeding is assigned is 703-305-3597 for regular communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2168.

> Lynne H. Browne Supervisory Patent Examiner Technology Center 3620

E.G.

July 30, 2001